

Amendments To the Claims:

Please amend the claims as shown.

1. (currently amended) A Method for ~~producing~~ generating a simulation program for maintenance by making available basic program operations and making available process parameters of a real process, ~~characterized by comprising:~~
automatically linking the basic program operations to the process parameters for initializing the simulation program.
2. (currently amended) A Method according to Claim 1, wherein automatic linking is carried out by a process control system which controls or regulates the real process.
3. (currently amended) A Method according to Claim 1 ~~or 2~~, wherein the process parameters are made available by making pre-defined data packets available.
4. (currently amended) A Method according to Claim 3, wherein the data packets ~~are parameter triples, in particular in each case one comprising:~~
a parameter for a type of a material;;
a parameter for a type of a container; and
a parameter for an amount of the material.
5. (currently amended) A Method according to ~~one of the~~ Claims 1 ~~to 4~~, wherein the process parameters are obtained from a production recipe of the real process.
6. (currently amended) A Method according to ~~one of the~~ Claims 1 ~~to 5~~, wherein the basic program operations are assembled into the simulation program on the basis of one or more semantic programs, semantic periphery assignments ~~and/or~~ process control engineering documents of the control of the real process.
7. (cancelled)

8. (cancelled)

9. (currently amended) A ~~D~~device for simulating a maintenance system, ~~with comprising:~~
a storage facility for making available basic program operations and for a simulation process;
~~and~~
a control device for simulating a real process on the basis of the basic program operations; and
~~characterized by~~
a read-in device for reading in process parameters of the real process, wherein, ~~by means of~~
the control device links automatically; the basic program operations for a simulation process ~~can~~
~~be automatically linked~~ to the process parameters for initializing the simulation process.

10. (currently amended) A ~~D~~device according to Claim 9, wherein the control device is integrated in a process control system which controls or regulates the real process.

11. (currently amended) A ~~D~~device according to Claim 9 ~~or 10~~, wherein the process parameters are pre-defined data packets.

12. (currently amended) A ~~D~~device according to Claim 11, wherein the data packets ~~are~~
~~parameter triples comprising: , in particular in each case one~~
a parameter for a type of a material;
a parameter for a type of a container; and
a parameter for an amount of the material.

13. (currently amended) A ~~D~~device according to ~~one of the~~ Claims 9 ~~to 12~~, wherein the process parameters ~~can be~~ is read in by the read-in device from a production recipe storage unit of the real process.

14. (currently amended) A ~~D~~device according to ~~one of the~~ Claims 9 ~~to 13~~, wherein one or more semantic programs, semantic periphery assignments ~~and/or~~ process control engineering

documents of a real process ~~can be~~ is read in by the read-in device and used by the control device for assembling the basic program operations.

15. (cancelled)
16. (new) A method for maintaining a system, comprising:
 - executing a real process in the system;
 - generating a simulation program by making available basic program operations and making available process parameters of a real process;
 - automatically linking the basic program operations to the process parameters for initializing the simulation program;
 - controlling the simulation process by a process control system of the real process; and
 - executing a simulation process parallel to the real process, wherein the simulation process simulating at least a part of the real process;
 - comparing at least a portion of the simulation process with at least a portion of the real process to obtain a comparison result; and
 - deriving maintenance measures from the comparison result.
17. (new) A method according to Claim 2, wherein the process parameters are made available by making pre-defined data packets available.
18. (new) A device according to Claim 10, wherein the process parameters are pre-defined data packets.